



# Science for Society:

*Practical Benefits enabled by the Earth Science Enterprise*



Agricultural Efficiency  
Air Quality  
Aviation Safety  
Carbon Management  
Coastal Management  
Community Growth  
Disaster Management  
Energy Management  
Homeland Security  
Invasive Species  
Public Health  
Water Management

[Home](#)
[Approach](#)
[What's New](#)
[Search Projects](#)
[Partners](#)


To understand and protect our home planet... We have come to understand that the only way to really comprehend our climate and to protect the scarce resources of our little blue planet is to look at the Earth as a single, whole system. This holistic approach allows us to see how the oceans affect climate on land, for example, and how natural and man-made environmental hazards in one part of the world affect other parts of the world.

From the unique vantage point of space, we can see, and more importantly, predict, how dust storms in the Sahara will affect crops in the American Midwest. From the unique vantage point of space, we can predict how mosquito-borne diseases will spread. From the unique vantage point of space, we can tell a farmer what part of her field needs fertilizer and which part does not.

NASA's job is to develop the technologies of the future to meet its mission and then to turn that technology loose so that government and America's entrepreneurs can turn them into products for the greater good to serve the important objective of protection.

-Sean O'Keefe, NASA Administrator

## Did You Know...

that scientists have used images from satellites to measure the water clarity for over 10,000 of Minnesota's lakes, allowing them to evaluate water quality patterns across the state? [More...](#)

Reload the page for more facts.

## Related Links



National Aeronautics and Space Administration  
Earth Science Enterprise  
John C. Stennis Space Center

## Earth Science Applications Directorate

*Our mission is to optimize benefits from NASA's Earth Science investments through systems engineering to advance decision support tools that serve the nation.*

Thursday, June 12, 2003

### NATIONAL APPLICATIONS

#### ESA LINKS

[What is ESA?](#)

[ESA in the News](#)

[FAQ'S](#)

[Tools](#)

[ESA Success Stories](#)

[Search ESA Projects](#)

[Interactive Map](#)

(\*Javascript required\*)

[RS Image Gallery](#)

[Visions & Missions](#)

[Landsat Mosaic Data](#)

[Site Map](#)

#### OTHER LINKS

[NASA](#)

[NASA Centers](#)

[Earth Science Enterprise](#)

[ES Applications Division](#)

[Stennis Space Center](#)

[ESNetwork](#)

[Earth Observatory](#)

[Earth Observer](#)

[ESDCD News](#)



Agricultural  
Competitiveness



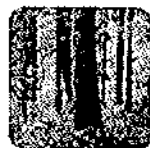
Air Quality  
Management



Aviation Safety



Invasive Species



Carbon  
Management



Coastal  
Management



Disaster  
Preparedness



Homeland  
Security



Energy  
Forecasting



Public Health



Community  
Growth



Water  
Management

ESA Programs :



[Landsat Mosaic Data](#)

Try our [Interactive Map](#) to see where ESA projects